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| **Common addition and subtraction situations.** | | | |
| **Add to** | **Result Unknown**  Two bunnies sat on the grass. Three more bunnies hopped there. How many bunnies are on the grass now?  2 + 3 = ? | **Change Unknown**  Two bunnies were sitting on the grass. Some more bunnies hopped there. Then there were five bunnies. How many bunnies hopped over to the first two?  2 + ? = 5 | **Start Unknown**  Some bunnies were sitting on the grass. Three more bunnies hopped there. Then there were five bunnies. How many bunnies were on the grass before?  ? + 3 = 5 |
| **Take from** | Five apples were on the table. I ate two apples. How many apples are on the table now?  5 – 2 = ? | Five apples were on the table. I ate some apples. Then there were three apples. How many apples did I eat?  5 - ? = 3 | Some apples were on the table. I ate two apples. Then there were three apples. How many apples were on the table before?  ? – 2 = 3 |
| **Put Together/ Take Apart** | **Total Unknown**  Three red apples and two green apples are on the table. How many apples are on the table? | **Addend Unknown**  Five apples are on the table. Three are red and the rest are green. How many apples are green?  3 + ? = 5, 5 – 3 = ? | **Both Addends Unknown**  Grandma has five flowers. How many can she put in her red vase and how many in her blue vase?  5 = 0 + 5. 5 = 5 + 0  5 = 1 + 4, 5 = 4 + 1  5 = 2 + 3, 5 = 3 + 2 |
| **Compare** | **Difference Unknown**  (“How many more?” version):  Lucy has two apples. Julie has five apples. How many more apples does Julie have than Lucy?  (“How many fewer?” version):  Lucy has two apples. Julie has five apples. How many fewer apples does Lucy have than Julie?  2 + ? + 5, 5 - 2 = ? | **Bigger Unknown**  (Version with “more”): Julie has three more apples than Lucy. Lucy has two apples. How many apples does Julie have?  (Version with “fewer”): Lucy has 3 fewer apples than Julie. Lucy has two apples does Julie have?  2 + 3 = ?. 3 + 2 = ? | **Smaller Unknown**  (Version with “more”): Julie has three more apples than Lucy. Julie has five apples. How many apples does Lucy have?  (Version with “fewer”) Lucy has 3 fewer apples than Julie. Julie has five apples. How many apples does Lucy have ?  5 – 3 = ?, ? + 3 = 5 |

Kindergarten students solve problem types in blue shading.

Grade one and two students solve problems of all sub-types.

Green problems are the most difficult. Grade one students work with these problems but do not master them until grade two.